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CLAIMS:

1. Shell for ballistic helmet formed from a plurality of paraaramide fabric layers and bonding resin, wherein said fabric layers have areal density equal or less than 200g/m², said shell has average thickness less than 6.5 mm and average areal
5 density less than 7.5 Kg/m².
2. Shell according to Claim 1, wherein at least one of said fabric layers has areal density less than 160g/m².
3. Shell according to Claim 1, wherein part of said fabric layers have areal density less than 160g/m² and the rest fabric layers have areal density between 200
10 and 160g/m².
4. Shell according to Claim 2, wherein part of said paraaramide fabric layers are KEVLAR-KM2®.
5. Shell according to Claim 1, wherein said bonding resin constitutes less than 12% of the shell weight.
- 15 6. Shell according to Claim 1, wherein said plurality of layers is greater than 28.
7. Shell according to Claim 6, wherein said plurality of layers is not less than 33.
8. Shell according to Claim 7, wherein said plurality of layers is not less than
20 38.
9. Shell for ballistic helmet formed from a plurality of paraaramide fabric layers and bonding resin, wherein said plurality of layers is greater than 28 and said shell has average thickness less than 6.5 mm.
10. Shell for ballistic helmet formed from a plurality of paraaramide fabric
25 layers and bonding resin, wherein said plurality of layers is not less than 38.
11. Shell for ballistic helmet formed from a plurality of paraaramide fabric layers and bonding resin, wherein said fabric layers have areal density less than 200g/m², and said plurality of layers is greater than 28.

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12. Shell for ballistic helmet formed from a plurality of paraaramide fabric layers and bonding resin, wherein said plurality of layers is greater than 28 and said shell has average areal density less than 7.0 Kg/m².

13. Method for production of shell for ballistic helmet according to anyone of
5 the preceding claims, including pressing and bonding of said plurality of layers at pressure equal or above 150Kg/cm².

14. Method according to Claim 12, wherein said pressure is equal or above 300Kg/cm².